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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/808,496 03/24/2004		Anuschirvan Peyman	446.016-DIV	5709	
47888	7590 12/01/2005	EXAMINER			
HEDMAN & COSTIGAN P.C. 1185 AVENUE OF THE AMERICAS			TRUONG, TAMTHOM NGO		
NEW YORK.			ART UNIT	PAPER NUMBER	
,			1624		

DATE MAILED: 12/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Annline	Aion No.	Applicant(s)				
Office Action Summary			tion No.	PEYMAN ET AL.				
		10/808,						
	•	Examin		Art Unit				
	The MAILING DATE of this communication		n N. Truong	1624	ldross			
Period fo		on appears on t	ne cover sneet with the	correspondence at	iuress			
WHI(- Exte after - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR INCHEVER IS LONGER, FROM THE MAIL! Insions of time may be available under the provisions of 37 in SIX (6) MONTHS from the mailing date of this communicated period for reply is specified above, the maximum statutory tree to reply within the set or extended period for reply will, by received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF T CFR 1.136(a). In no of tion. y period will apply and y statute, cause the a	THIS COMMUNICATIOn event, however, may a reply be to will expire SIX (6) MONTHS from poplication to become ABANDON	NN. imely filed in the mailing date of this c ED (35 U.S.C. § 133).				
Status				•				
1)[☑	Pernanciva to communication(s) filed on	01 Santambar	2005					
·	Responsive to communication(s) filed on <u>01 September 2005</u> . This action is FINAL 2b) This action is post final.							
′=	2a) ☐ This action is FINAL . 2b) ☐ This action is non-final.							
ال.0	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	closed in accordance with the practice di	ilder Ex parte C	luayle, 1935 C.D. 11, 4	53 U.G. 213.				
Disposit	ion of Claims							
4)🛛	☑ Claim(s) <u>1-6,8 and 11</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-6, 8 and 11</u> is/are rejected.							
7)								
8)□	Claim(s) are subject to restriction	and/or election	requirement.					
Applicati	on Papers				••			
	·	i						
	The specification is objected to by the Exa							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
			-	• •	TD 4 4047 IV			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
•••	The dain of declaration is objected to by t	ine Examiner. N	iole the attached Office	e Action or form PT	U-152.			
Priority ι	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for fo ☐ All b)☐ Some * c)☐ None of:	oreign priority u	nder 35 U.S.C. § 119(a	a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the	e priority docum	ents have been receiv	ed in this National	Stage			
	application from the International B	Bureau (PCT Ru	ıle 17.2(a)).					
* S	ee the attached detailed Office action for	a list of the cer	tified copies not receive	ed.				
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Attach	(A)							
Attachment	e of References Cited (PTO-892)		A) []	(DTO 445)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94	48)	4) Interview Summary Paper No(s)/Mail D					
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date		5) Notice of Informal F 6) Other:)-152)			

FINAL ACTION

Applicant's amendment of 09-01-2005 has been fully considered. Applicant's terminal disclaimer has overcome the previous rejection of Obviousness-type Double Patenting, and thus, said rejection is withdrawn herein. However, the amended claims have not overcome the previous rejections of 112/1st and 2nd paragraphs. Thus, those rejections remain outstanding for the following reasons. The amended claims also raise new issues of 112/2nd paragraph.

Claims 7, 9 and 10 are cancelled.

Claims 1-6, 8 and 11 are pending.

Claim Rejections - 35 USC § 112, Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 1. Claims 1-6, 8 and 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The following reasons apply:
 - a. Contrary to applicant's remark, the term "residue" (e.g., "arylene residue") has not been deleted from claim 1. Thus, said term still renders claim 1 indefinite because it suggests an incomplete or impartial structure. Applicant is suggested to use the term "group".

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b. In claim 1, the definition of X still recites a set of substituents within parentheses (i.e., " $(amino-(C_1-C_6)-alkyl-NH-, hydroxyl-(C_1-C_6)-alkyl-O-, hydroxyl-(C_1-C_6)-alkyl-S-, and -NH-C(O)-R^6$)"). Within this set, it is unclear if X is a combination of all those substituents, or X only represents one of those at any one point. Applicant is suggested to delete the parentheses.

- c. Formula IIIa has two different core structures. Thus, said formula represents two different sets of compounds.
- d. Variable "B" bears no structural relationship to formulae IIIa and IIIb.

 Furthermore, all three formulae seem incomplete because it is unclear where the location of variable "B" is.
- e. Claims 2-6, 8 and 11 are rejected as being dependent on claim 1.

Claim Rejections - 35 USC § 112, First Paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. New Matter: Claims 1-6, 8 and 11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the

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claimed invention. Claim 1 recites formulae IIIa and IIIb. Although said formulae have support in the specification, the subgenera they represent do not have sufficient written description because the location of variable "B" is indeterminate. Note, as written, substituent B could be anywhere. That is, it could be on the tetrahydronaphthyridine, on the ring having Z, on Y, X, or G, etc. Such a subgenus does not have support in the instant disclosure, and therefore, it lacks a written description.

Claims 1-6, 8 and 11 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the make and use of compounds of formula I (with a purine ring), does not reasonably provide enablement for the make and use of those compounds of formulae IIIa and IIIb (i.e., those of 3-deazapurine, 7-deazapurine, or 7-deaza-8-azapurine). The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

The rejection is maintained for the reasons stated in the previous action and for the reason below:

Applicant asserted that "the specification has to be specific examples and set forth the structural formulae on page17 which formulae have now been inserted into the claims and the compounds can be prepared by replacing the purine molecule by the corresponding deazapine molecule and there is no scientific reason why the reaction would not take place..."

However, the corresponding deazapurine molecules of formulae IIIa and IIIb might not

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have the same solubility with the reagents or solvents used for purine. They might not react

under the same temperature or reaction condition either. Both the generic process and examples

are directed to compounds of purine, and nothing else. Therefore, given the unpredictable nature

of the chemical art, it would require undue experimentation to make compounds of formulae IIIa

and IIIb.

Specification

3. The disclosure is objected to because of the following informalities:

The specification still has formula IIIa represents two different sets of compounds.

Appropriate correction is required.

No pending claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamthom N. Truong whose telephone number is 571-272-0676. The examiner can normally be reached on M-F (9:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tamthom N. Truong

Examiner

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11-21-05

JAMES O. WILSON

SUPERVISORY PATENT EXAMINER
/ TECHNOLOGY CENTER 1600